

Comparisons of Job Characteristics

Focus Occupation: Network and Computer Systems Administrators (15-1071)

Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 94

Focus Occupation: Network and Computer Systems Administrators (15-1071)

Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	21.2	21.5	0 Current knowledge level may be sufficient
Telecommunications	3.9	17.4	13.4	<< Extensive education and/or training may be required
Customer and Personal Service	11.3	13.4	7.3	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 77

Focus Occupation: Network and Computer Systems Administrators (15-1071)

Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Systems Analysis	6.5	12.8	11.1	< A higher skill level may be required
Operations Analysis	5.0	11.5	8.3	<< Extensive development of skills in this area may be required
Systems Evaluation	6.4	11.5	11.0	0 Current skill level may be sufficient
Troubleshooting	4.5	10.3	7.8	<< Extensive development of skills in this area may be required
Quality Control Analysis	5.9	10.0	9.8	0 Current skill level may be sufficient
Programming	2.2	9.6	8.5	< A higher skill level may be required
Technology Design	2.6	9.1	6.5	<< Extensive development of skills in this area may be required
Equipment Selection	3.3	8.5	4.4	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 98			
Focus Occupation: Network and Computer Systems Administrators (15-1071) Associated Occupation: Network Systems and Data Communications Analysts (15-1081)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Deductive Reasoning	10.6	12.3	12.7	0	Current ability level may be sufficient
Information Ordering	9.9	11.6	11.8	0	Current ability level may be sufficient
Fluency of Ideas	7.6	9.7	10.1	0	Current ability level may be sufficient
Selective Attention	8.7	9.7	9.9	0	Current ability level may be sufficient
Originality	7.6	9.4	9.1	0	Current ability level may be sufficient
Perceptual Speed	7.4	8.8	9.0	0	Current ability level may be sufficient
Speed of Closure	5.9	8.5	7.7	<	Some improvement in abilities may be required
Memorization	5.6	7.3	7.3	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 92
Focus Occupation: Network and Computer Systems Administrators (15-1071) Associated Occupation: Network Systems and Data Communications Analysts (15-1081)		
Work Activities	Exclusivity of Activity	
Adjust computer operation system	84	
Communicate technical information	4	
Evaluate computer system user requests or requirements	81	
Follow data security procedures	77	
Maintain or repair computers or related equipment	81	
Monitor use of computer data files to safeguard information	99	
Perform minor repairs to hardware, software, or peripheral equipment	95	
Prepare instruction manuals	78	
Provide technical support to computer users	80	
Test computer programs or systems	78	
Train workers in use of computer and related equipment	95	
Understand computer equipment operating manuals	84	
Use computers to enter, access or retrieve data	3	
Use spreadsheet software	18	
Use word processing or desktop publishing software	17	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 94

Focus Occupation: Network and Computer Systems Administrators (15-1071)

Associated Occupation: Network Systems and Data Communications Analysts (15-1081)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1
Development software	4
Educational or reference software	12
Electronic and communication measuring and testing instruments	14
Finance accounting and enterprise resource planning ERP software	2
Industry specific software	1
Information exchange software	1
Light and wave generating and measuring equipment	4
Media storage devices	21
Network applications software	1
Network management software	37
Network service equipment	47
Networking software	21
Operating environment software	12
Security and protection software	30
Utility and device driver software	17

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.